

WHAT IS CLAIMED IS:

1. A differential pair interconnection apparatus for transmitting a signal through a differential signal line formed on a circuit board to an external circuit, or transmitting the signal from the external circuit to the
5 circuit board, comprising of:

a pair of coaxial type cables being arranged in a Y-branch form and including one end portions being spaced apart from each other and the other end portions placed close to each other, wherein said each of the end portions being spaced apart from each other being connected to a connector and each of
10 the end portions placed close to each other having an internal conductor exposed outside; and

a housing in which internal conductors of the coaxial type cables are inserted therein, respectively, to be protruded outward, and a plurality of fixing means are formed on the side of the housing having the protruded
15 internal conductors,

wherein the circuit board is combined between the fixing means of the housing so that the differential signal line of the circuit board is contacted to the internal conductors of the coaxial type cables.

20 2. The differential pair interconnection apparatus of claim 1, wherein the connector and the housing are made of conductive materials.

3. The differential pair interconnection apparatus of claim 1, wherein the connector and the housing are connected to a ground in common.

4. The differential pair interconnection apparatus of claim 1, wherein the fixing means are formed in a rectangular parallelepiped shape.

5 5. The differential pair interconnection apparatus of claim 1, wherein the coaxial type cables have impedance matched to be equal to the impedance of a single-ended signal line.

6. The differential pair interconnection apparatus of claim 1, further
10 comprising of a protecting cover for protecting and supporting the exposed portion of the coaxial type cable.